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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,378	07/24/2003	Man M. Garg	66329/31366	9790

23380 7590 11/01/2007

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EXAMINER	
RODRIGUEZ, LENNIN R	
ART UNIT	**PAPER NUMBER**
2625	

NOTIFICATION DATE	DELIVERY MODE
11/01/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)	
	10/626,378	GARG, MAN M.	
	Examiner	Art Unit	
	Lennin R. Rodriguez	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 August 2007*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-21* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-21* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *13 August 2007* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 12-13 and 21 have been considered but are moot in view of the new ground(s) of rejection. New limitations such as "means adapted to periodically push the translated job state message to each of the plurality of associated network clients in accordance with registration data of the spooler feedback component corresponding thereto" are new to the claims and therefore need a new search to be conducted.

2. The objections to the specification, items (1)-(3), have been withdrawn in view of the amendment.

3. The objections to the drawings have been withdrawn in view of the amendment.

4. The claim objections, items (1)-(2), have been withdrawn in view of the amendment.

Claim Objections

5. Claims 13-20 are objected to because of the following informalities:

(1) claim 13, line 8, "**a** status update" should be – **the** status update --;

(2) claim 13, line12, "with registration" should be – with **said** registration --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1, 3, 11 and 13-15 rejected under 35 U.S.C. 102(e) as being anticipated by Ochiai (US Patent 6,734,985).

(1) regarding claim 1:

Ochiai '985 discloses a feedback component, comprising:

means adapted to receive a status message from a spooler of an associated document processing device (column 2, lines 6-7, where one component of the computer terminal is adapted to receive status messages from the printer and the printer at the same time has communication with a spooler as it could be seen in Fig. 8 of the reference where it says that one of the functions of the printers of this particular invention is job spooling);

means adapted to receive a signal from an image output system of the associated document processing device (column 2, lines 6-7, where the printer is in communication with the computer through a network 102 as seen in Fig. 1 and what pass through the network are signals), the image output system communicatively

coupled to the spooler (102 in Fig. 1, where the printer is connected trough a network to the computer that contains the spooler);

means adapted to receive registration data at a spooler feedback component associated with the spooler from each of a plurality of associated network clients (column 2, lines 9-11), the registration data being representative of a request for transmission of status messages for communication thereto (column 2, lines 2-4, where the computer sends a request for transmission);

means adapted to generate a job state message from the spooler feedback component, wherein the job state is at least one of the group consisting of the status message (column 2, lines 22-25) and the signal;

means adapted to translate the job state message to a format compatible with the network client (column 8, lines 44-51, where the messages are being sent according to the specifics of each computer client); and

means adapted to periodically push the translated job state message to each of the plurality of associated network clients (column 2, lines 2-4) in accordance with registration data of the spooler feedback component corresponding thereto (column 2, lines 22-25 and column 8, lines 44-51).

(2) regarding claim 13:

Ochiai '985 discloses a method for providing continuous feedback from a printing system, comprising the steps of:

monitoring the printing system (column 4, lines 18-19);

receiving a status update from a spooler of an associated document processing device (column 2, lines 6-7, where one component of the computer terminal is adapted to receive status messages from the printer and the printer at the same time has communication with a spooler as it could be seen in Fig. 8 of the reference where it says that one of the functions of the printers of this particular invention is job spooling);

receiving registration data at spooler feedback component associated with the spooler from each of a plurality of associated network clients (column 2, lines 9-11), the registration data being representative of a request for transmission of status updates for communication thereto (column 2, lines 2-4, where the computer sends a request for transmission);

generating a status update from the spooler feedback component (column 2, lines 22-25);

converting the status update to a format compatible with a network client (column 8, lines 44-51, where the messages are being sent according to the specifics of each computer client); and

periodically pushing the converted status update to each of the plurality of associated network clients (column 2, lines 2-4) in accordance with registration data received therefrom (column 2, lines 22-25 and column 8, lines 44-51).

(3) regarding claims 3 and 15:

Ochiai '985 further discloses wherein the status message is a text message (Fig. 8 shows a list of printer statuses all in text format).

(4) regarding claim 11:

Ochiai '985 further discloses wherein the feedback component comprises computer readable instructions stored on a computer readable medium (column 10, lines 1-8, where the invention of the reference can be program codes read by a computer).

(5) regarding claim 14:

Ochiai '985 further discloses registering with the printing system (column 2, lines 11-13, where the printer registers each computer client).

Claim Rejections - 35 USC § 103

8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

9. Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ochiai (US Patent 6,734,985) in view of Nishikawa et al. (US Patent 7,064,849).

(1) regarding claim 2:

Ochiai '985 discloses all the subject matter as described above except means adapted to register with the spooler's application programming interface.

However Nishikawa '849 teaches means adapted to register with the spooler's application programming interface (Figs. 2 and 3, column 5, lines 49-63, where the system consists of, among other parts, a spooler and the process has to register with the application program for the proper functionality).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to register with the spooler's

application programming interface as taught by Nishikawa '849 in the system of Ochiai '985. This will allow the feedback component to have a registered connection with components of the system thus establishing a secure communication to transmit the information about print statuses.

(2) regarding claim 4:

Ochiai '985 discloses all the subject matter as described above except means adapted to determine a native language for the network client.

However, Nishikawa '849 teaches means adapted to determine a native language for the network client (column 9, lines 61-67, where it is being determined what language should be the one for displaying a message).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to determine a native language for the network client as taught by Nishikawa '849 in the system of Ochiai '985. With this, the system makes sure that the person at the other side of the computer can understand the information being displayed, thus making the system more user friendly.

10. Claims 5-6 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ochiai (US Patent 6,734,985) in view of Bourbonnais et al. (US Patent 6,338,033).

(1) regarding claims 5 and 6:

Ochiai '985 discloses all the subject matter as described above except means adapted to filter the job status message so that only a selected job status message is sent to the network client.

However, Bourbonnais '033 teaches means adapted to filter the job status message so that only a selected job status message is sent to the network client (column 5, lines 65-67, where the filter is doing the job of showing only the desired messages).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to filter the job status message so that only a selected job status message is sent to the network client as taught by Bourbonnais '033, in the system of Ochiai '985. With this the user of the system would have many options from which he would elect the ones that he or she prefers, thus improving the system to make of it a user friendly one.

Regarding claim 5, "customize the job state message" is being interpreted as performing the same function as claim 6 does.

(2) regarding claim 16:

Ochiai '985 discloses all the subject matter as described above except wherein the converting step converts the status update to a foreign language.

However, Bourbonnais '033 teaches wherein the converting step converts the status update to a foreign language (column 2, lines 63-65, where there is a translation between two language, one of them being the foreign one).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the converting step converts the status update to a foreign language as taught by Bourbonnais '033, in the system of Ochiai '985. With this,

the system makes sure that the person at the other side of the computer can understand the information being displayed, thus making the system more user friendly.

11. Claims 7-10 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ochiai (US Patent 6,734,985) in view of Hiroshi et al. (JP 10289070 A, from now on all citations are being made from the Japanese translation).

(1) regarding claims 7 and 17:

Ochiai '985 discloses all the subject matter as described above except means adapted to delay sending the job status message for a first time period.

However, Hiroshi '070 teaches means adapted to delay sending the job status message for a first time period (paragraph [0017], where there is a fixed amount of time to transmits status information).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to delay sending the job status message for a first time period as taught by Hiroshi '070, in the system of Ochiai '985. With this the network printer can return status information to a host computer, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many network traffic.

(2) regarding claims 8 and 18:

Ochiai '985 discloses all the subject matter as described above except means adapted to delay sending the job status message when a second job status message is received before the first time period expires.

However, Hiroshi '070 teaches means adapted to delay sending the job status message when a second job status message is received before the first time period expires (paragraph [0034], lines 1-2, where there is a predetermined second delay time every time a new message enters).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to delay sending the job status message when a second job status message is received before the first time period expires as taught by Hiroshi '070, in the system of Ochiai '985. With this the network printer can return status information to a host computer, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many network traffic.

(3) regarding claim 9:

Ochiai '985 discloses all the subject matter as described above except means adapted to delay sending the job status message when a second job status message is received delays a second time period.

However, Hiroshi '070 teaches means adapted to delay sending the job status message when a second job status message is received delays a second time period (paragraph [0035], where when a new status message is received t reset the time counter so it would be a new time period of delay).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to delay sending the job status message when a second job status message is received delays a second time period

as taught by Hiroshi '070, in the system of Ochiai '985. With this the network printer can return status information to a host computer in a second delay time, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many network traffic.

(4) regarding claims 10 and 19:

Ochiai '985 discloses all the subject matter as described above except wherein the feedback component sends only the most recent status message when the second time period expires.

However, Hiroshi '070 teaches wherein the feedback component sends only the most recent status message when the second time period expires (paragraph [0034], lines 5-11, where the system checks if the status to be send is the same as the last status sent and if it is it sends it).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made wherein the feedback component sends only the most recent status message when the second time period expires as taught by Hiroshi '070, in the system of Ochiai '985. With this the network printer can return status information to a host computer, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many network traffic.

(5) regarding claim 20:

Ochiai '985 discloses all the subject matter as described above except receiving at least one additional status update before a first predetermined time period expires; and

waiting until a second predetermined time period expires;

wherein the sending step sends only the most recent status update to the network client after the second predetermined time period expires.

However, Hiroshi '070 teaches receiving at least one additional status update before a first predetermined time period expires (paragraph [0034], lines 1-2, where there is a predetermined second delay time every time a new message enters); and

waiting until a second predetermined time period expires (paragraph [0035], where when a new status message is received t reset the time counter so it would be a new time period of delay);

wherein the sending step sends only the most recent status update to the network client after the second predetermined time period expires (paragraph [0034], lines 5-11, where the system checks if the status to be send is the same as the last status sent and if it is it sends it).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made receiving at least one additional status update before a first predetermined time period expires and waiting until a second predetermined time period expires wherein the sending step sends only the most recent status update to the network client after the second predetermined time period expires as taught by Hiroshi '070, in the system of Ochiai '985. With this the network printer can return status

information to a host computer, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many network traffic.

12. Claims 12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ochiai (US Patent 6,734,985) in view of Hiroshi et al. (JP 10289070 A), Bourbonnais et al. (US Patent 6,338,033), and Nishikawa et al. (US 7,064,849).

Ochiai '985 discloses a feedback component, comprising:

means adapted to receive a status message from a spooler of an associated document processing device (column 2, lines 6-7, where one component of the computer terminal is adapted to receive status messages from the printer and the printer at the same time has communication with a spooler as it could be seen in Fig. 8 of the reference where it says that one of the functions of the printers of this particular invention is job spooling);

means adapted to receive a signal from an image output system of the associated document processing device (column 2, lines 6-7, where the printer is in communication with the computer through a network 102 as seen in Fig. 1 and what pass through the network are signals), the image output system communicatively coupled to the spooler (102 in Fig. 1, where the printer is connected trough a network to the computer that contains the spooler);

means adapted to receive registration data at a spooler feedback component associated with the spooler from each of a plurality of associated network clients (column 2, lines 9-11), the registration data being representative of a request for

transmission of status messages for communication thereto (column 2, lines 2-4, where the computer sends a request for transmission);

means adapted to generate a job state message from the spooler feedback component, wherein the job state is at least one of the group consisting of the status message (column 2, lines 22-25) and the signal;

means adapted to translate the job state message to a format compatible with the network client (column 8, lines 44-51, where the messages are being sent according to the specifics of each computer client); and

means adapted to periodically push the translated job state message to each of the plurality of associated network clients (column 2, lines 2-4) in accordance with registration data of the spooler feedback component corresponding thereto (column 2, lines 22-25 and column 8, lines 44-51).

Ochiai '985 discloses all the subject matter as described above except means adapted to register with a spooler's application programming interface;

means adapted to determine a native language for a network client;

means adapted to filter the job status message so that only a selected job status message is sent to the network client;

means adapted to delay sending the job status message for a first time period; and

means adapted to delay sending the job status message when a second job status message is received before the first time period expires, wherein the means adapted to delay sending the job status message when a second job status message is

received delays a second time period, and sends only the most recent status message when the second time period expires.

However Nishikawa '849 teaches means adapted to register with the spooler's application programming interface (Figs. 2 and 3, column 5, lines 49-63, where the system consists of, among other parts, a spooler and the process has to register with the application program for the proper functionality);

means adapted to determine a native language for a network client (column 9, lines 61-67, where it is being determined what language should be the one for displaying a message).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to register with the spooler's application programming interface and means adapted to determine a native language for the network client as taught by Nishikawa '849 in the system of Ochiai '985. This will allow the feedback component to have a registered connection with components of the system thus establishing a secure communication to transmit the information about print statuses. Also, the system makes sure that the person at the other side of the computer can understand the information being displayed, thus making the system more user friendly.

Ochiai '985 and Nishikawa '849 disclose all the subject matter as described above except means adapted to filter the job status message so that only a selected job status message is sent to the network client;

means adapted to delay sending the job status message for a first time period; and

means adapted to delay sending the job status message when a second job status message is received before the first time period expires, wherein the means adapted to delay sending the job status message when a second job status message is received delays a second time period, and sends only the most recent status message when the second time period expires.

However, Hiroshi '070 teaches means adapted to delay sending the job status message for a first time period (paragraph [0017], where there is a fixed amount of time to transmits status information); and

means adapted to delay sending the job status message when a second job status message is received before the first time period expires (paragraph [0034], lines 1-2, where there is a predetermined second delay time every time a new message enters), wherein the means adapted to delay sending the job status message when a second job status message is received delays a second time period (paragraph [0035], where when a new status message is received t reset the time counter so it would be a new time period of delay), and sends only the most recent status message when the second time period expires (paragraph [0034], lines 5-11, where the system checks if the status to be send is the same as the last status sent and if it is it sends it).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to delay sending the job status message for a first time period, means adapted to delay sending the job status

message when a second job status message is received before the first time period expires wherein the means adapted to delay sending the job status message when a second job status message is received delays a second time, and sends only the most recent status message when the second time period expires period as taught by Hiroshi '070, in the system of Ochiai '985 and Nishikawa '849. With this the network printer can return status information to a host computer, whenever the printer status change (paragraph [0016]), thus increasing the performance of the system and allowing the network not to be congested with too many traffic.

Ochiai '985, Nishikawa '849 and Hiroshi '070 disclose all the subject matter as described above except means adapted to filter the job status message so that only a selected job status message is sent to the network client.

However, Bourbonnais '033 teaches means adapted to filter the job status message so that only a selected job status message is sent to the network client (column 5, lines 65-67, where the filter is doing the job of showing only the desired messages).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have means adapted to filter the job status message so that only a selected job status message is sent to the network client as taught by Bourbonnais '033, in the system of Ochiai '985, Nishikawa '849 and Hiroshi '070. With this the user of the system would have many options from which he would elect the ones that he or she prefers, thus improving the system to make of it a user friendly one.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lennin R. Rodriguez whose telephone number is (571) 270-1678. The examiner can normally be reached on Monday - Thursday 7:30am - 6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lennin Rodriguez
10/28/2007

KING Y. POON
SUPERVISORY PATENT EXAMINER